

WHAT IS CLAIMED IS:

1. An ink jet recording element comprising a support having
5 thereon an image-receiving layer comprising porous polymeric particles in a
polymeric binder, said polymeric binder comprising poly(vinyl alcohol) having a
degree of hydrolysis of at least about 95% and having a number average
molecular weight of at least about 45,000.

10 2. The element of Claim 1 wherein said porous polymeric particles
have a median diameter of less than about 10 μm .

15 3. The element of Claim 1 wherein said porous polymeric particles
have a median diameter of less than about 1 μm .

4. The element of Claim 1 wherein said porous polymeric particles
are crosslinked and have a degree of crosslinking of about 27 mole % or greater.

20 5. The element of Claim 1 wherein said porous polymeric particles
are made from a styrenic or an acrylic monomer.

6. The element of Claim 5 wherein said acrylic monomer
comprises methyl methacrylate or ethylene glycol dimethacrylate.

25 7. The element of Claim 1 wherein said poly(vinyl alcohol) has a
degree of hydrolysis of at least about 98%.

8. The element of Claim 1 wherein said support is paper or a
voided plastic material.

30 9. The element of Claim 1 wherein the porosity of said porous
polymeric particles is achieved by mixing a porogen with the monomers used to

make said polymeric particles, dispersing the resultant mixture in water, and polymerizing said monomers to form said porous polymeric particles.

10. The element of Claim 1 wherein said porous polymeric
5 particles have a surface area of at least about 35 m²/g.

11. The element of Claim 1 wherein said porous polymeric
particles have a surface area of at least about 100 m²/g.

10 12. The element of Claim 1 wherein said image-receiving layer
contains from about 0.20 to about 10.0 g/m² of said poly(vinyl alcohol) binder
and from about 1.5 to about 60 g/m² of said porous polymeric particles.

15 13. The element of Claim 1 wherein said image-receiving layer
contains from about 0.40 to about 5.0 g/m² of said poly(vinyl alcohol) binder and
from about 3.0 to about 30 g/m² of said porous polymeric particles.

14. The element of Claim 1 wherein said poly(vinyl alcohol) has a
number average molecular weight from about 70,000 to about 105,000.